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## Red Hat OpenStack Administration I: Core Services and Operations

**Duration: 5 Days**    **Course Code: CL110**

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### Overview:

#### Learn how to install, configure, use, and maintain Red Hat OpenStack Platform

Red Hat OpenStack Administration I (CL110) is designed for system administrators who are intending to implement a cloud computing environment using Red Hat OpenStack® Platform.

This course is based on Red Hat Enterprise Linux OpenStack Platform 8.

This course will teach students to install a proof-of-concept, configure, use, and maintain Red Hat OpenStack Platform. This course covers the core services: identity (Keystone), block storage (Cinder), image (Glance), networking (Neutron), compute and controller (Nova), and dashboard (Horizon).

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### Target Audience:

This course is designed for Linux system administrators, cloud administrators, and cloud operators interested in, or responsible for, maintaining a private or hybrid cloud.

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### Objectives:

- As a result of attending this course, you will understand the architecture of a private or hybrid OpenStack cloud infrastructure and will be able to create, manage, and troubleshoot software-defined network services, resources, servers, and applications for dynamically scalable business environments.
  - You should also be able to demonstrate these skills:
    - Design and implement on-demand projects, software-defined networks, and virtual machine instances.
    - Deploy a proof-of-concept OpenStack installation for practice, development, demonstration, and testing, back in your own home or business computing environment.
    - Manage software-defined networks such as subnets, routers, floating IP addresses, images, flavors, security groups/rules, and block and object storage.
    - Create and customize advanced VM instances as applications, customize on deploy, and create scalable stacks of multiple VM applications.
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### Prerequisites:

Red Hat Certified System Administrator (RHCSA®) in Red Hat Enterprise Linux® certification or equivalent experience

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### Follow-on-Courses:

- CL210 - Red Hat OpenStack Administration II: Infrastructure Configuration
  - CEPH125 - Red Hat Ceph Storage Architecture and Administration
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## Content:

Course introduction	Manage networks	Manage the Keystone identity service
Introduce and review the course.	Manage networks using Horizon.	Manage the Keystone identity service using the command-line interface.
Launch an instance	Manage floating IP addresses	Prepare to launch instances with the command-line interface
Launch an instance and describe the terminology and services used in OpenStack.	Manage networks using Horizon.	Prepare to launch instances and manage instances using the command-line interface.
Manage projects and users	Manage block storage	Manage instances with the command-line interface
Manage projects and users using Horizon.	Manage block storage using Horizon.	Manage instances using the command-line interface.
Manage project quotas	Manage security and access	Manage block storage with the command-line interface
Manage project quotas using Horizon.	Manage security and access to instances using Horizon.	Manage block storage using the command-line interface.
Manage flavors	Manage instances with Horizon	Comprehensive review of Red Hat OpenStack Administration I
Manage flavors using Horizon.	Manage instances using Horizon.	Review tasks in the Red Hat OpenStack Administration I course.
Manage images	Install OpenStack	
Manage images using Horizon.	Install an OpenStack proof of concept using PackStack.	

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## Additional Information:

### Red Hat Learning Subscriptions:

The Red Hat Learning Subscription is an exclusive program that provides users with 12-months access to all Red Hat Online Learning and video classroom courses. All subscribers will receive unlimited access to online learning content, up to 400 hours of hands-on lab time and more than 300 recorded instructor videos.

There are two versions available: Basic and Standard. These are also available in an Enterprise variant for large companies. The Standard is the most extensive subscription and offers access to Red Hat exams as an extra.

For more information please see LS120 and LS220 below

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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